WHAT IS CLAIMED IS:

1	1. A device for ablating tissue, comprising:			
2	an ablating device having at least one ablating element and a bottom surface			
3	the bottom surface being positioned adjacent to tissue to be ablated; and			
4	a cover extending over the bottom surface;			
5	a cavity defined by a space between the cover and bottom surface; and			
6	a flowable material positioned in the cavity;			
7	wherein the cover is movable relative to the ablating device to a position			
8	which exposes the bottom surface while leaving the flowable material positioned between the			
9 1 1	ablating device and the tissue to be ablated.			
1	2. The device of claim 1, wherein:			
2	the ablating device has a removable tip.			
1	3. The device of claim 1, wherein:			
2	the flowable material has a boiling temperature of at least 100 degrees C and			
2 3	vapor pressure higher than water.			
1	4. The device of claim 1, wherein:			
2	the flowable material is selected from the group consisting of PEG and			
, 3	glycerine.			
1	5. The device of claim 1, wherein:			
2	the ablating device has a plurality of ablating elements.			
1	6. The device of claim 1, wherein:			
2	the ablating device forms a closed loop.			
1	7. The device of claim 1, wherein:			
2	the cover is a sleeve which surrounds the ablating device.			
1	8. A method of ablating tissue, comprising the steps of:			
2	providing an ablating device and a cover, the ablating device having a bottom			
3	surface, the cover being spaced apart from the bottom surface to define a fluid cavity, the			
4	fluid cavity containing a fluid;			

5	positioning the cover against a ussue surface,			
6	moving the cover away from the bottom surface so that the bottom surface is			
7	exposed and positioned adjacent the tissue surface, the flowable material conforming to the			
8	shape of the tissue surface and being positioned between the bottom surface of the ablating			
9	device and the tissue surface; and			
10	ablating the tissue after the moving step.			
1	9. The method of claim 8, wherein:			
2	the positioning step is carried out with the tissue surface being an epicardial			
3	surface.			
1	10. The method of claim 8, wherein:			
1 2 3	the moving step is carried out by moving the cover while substantially			
1 3	maintaining the position of the ablating device.			
# 1	11. The method of claim 8, wherein:			
2	the providing step is carried out with the cover having a removable tip.			
	12. The method of claim 8, wherein:			
2	the providing step is carried out with the flowable material having a boiling			
3	temperature of at least 120 degrees C.			
1	13. The method of claim 8, wherein:			
2	the providing step is carried out with the flowable material being selected from			
3	the group consisting of PEG and glycerine.			
1	14. The method of claim 8, wherein:			
2	the providing step is carried out with the ablating device having a plurality of			
3	ablating elements.			
1	15. The method of claim 8, wherein:			
2	the providing and moving steps are carried out with the ablating device			
3	forming a closed loop.			
1	16. The method of claim 15, wherein:			

2		the pr	oviding and moving steps are carried out with the ablating device
3	forming a close	ed loo	p around the pulmonary veins; and
4		the ab	lating step is carried out to form an ablation around the pulmonary veins.
1		17.	A device for ablating tissue, comprising:
2		a bod	y having a first part and a second part which are coupled together to form
3	a closed loop a	nd sep	parated to open the closed loop;
4	•	at leas	st one ablating element mounted to the body; and
5		a flex	ible tip extending from an end of the body, the tip extending for at least
6	two inches and being free of any ablating elements, the flexible tip facilitating advancement		
7	of the body thr	ough	a space between the epicardium and pericardium.
$\prod_{i=1}^{n} 1$		18.	The device of claim 17, wherein:
2		the tip	p is removable from the body.
1		19.	The device of claim 17, wherein:
1 1 2 1 1		the bo	ody has a plurality of ablating elements attached thereto.
1		20.	The device of claim 17, wherein:
2		the at	plating device has an ultrasonic transducer.
1		21.	The device of claim 17, wherein:
2		the bo	ody has a convex bottom surface which is positioned adjacent the tissue
3	to be ablated.		
1		22.	The device of claim 21, wherein:
2		a mei	mbrane forms the convex surface.
1		23.	The device of claim 22, wherein:
2		the m	nembrane partially defines a cavity containing a fluid.
1		24.	The device of claim 17, wherein:
2		the al	blating device has a plurality of ablating elements.
1		25.	The device of claim 17, wherein:
2		the a	blating device forms a closed loop around the heart.

T	20. A system of forming an ablation from an epication,			
2	comprising the steps of:			
3	a liquid delivery device for delivering a liquid to a space between the			
4	pericardium and epicardium to create a liquid environment around the heart; and			
5	at least one ablating element for ablating tissue when submerged in the liquid			
6	environment around the heart.			
1	27. The system of claim 26, wherein:			
2	the ablating element is an element selected from the group consisting of RF,			
3	ultrasound, microwave, cryo and laser			
<u>.</u> T1	28. The system of claim 26, wherein:			
= 2	the liquid delivery device is delivered through a penetration in the			
Ā 3	pericardium.			
1 2 2 3	29. A method of ablating tissue from an epicardial location, comprising the			
2	steps of:			
3	providing an ablating device having a tip;			
4	advancing the ablating device through a space between the epicardium and			
5	pericardium;			
6	removing the tip of the ablating device; and			
7	ablating tissue with the ablating device.			
1	30. The method of claim 29, further comprising the step of:			
2	forming a closed loop with the ablating device after the removing step.			
1	31. The method of claim 29, wherein:			
2	the advancing step is carried out with the ablating device having a plurality of			
3	ablating elements.			
1	32. The method of claim 29, wherein:			
2	ablating step is carried out to form an ablation around the pulmonary veins.			
1	33. The method of claim 29, wherein:			

2		the providing step is carried out with the tip having a length of at least two			
3	inches and being free of ablating elements.				
1		34.	The method of claim 33, wherein:		
2		the pr	oviding step is carried out with the tip having a length of at least four		
3	inches.				
1		35.	A method of forming an ablation from an epicardial location,		
2	comprising the	e steps	of:		
<u>-</u> 3	creating a liquid environment around a patient's heart;				
4		positi	oning an ablating device against an epicardial location of the patient's		
4 4 7	heart; and				
<u> </u>		ablati	ng tissue from the epicardial location while the ablating device is		
	contained within the liquid environment.				
L 1		36.	The method of claim 35, wherein:		
2		the cr	reating step is carried out by at least partially filling the pericardial space		
2	with the liquid to create the liquid environment around the patient's heart.				
1		37.	The method of claim 35, wherein:		
2		the at	plating step is carried out with the ablating device being submerged		
. 3	within the liquid.				
1		38.	The method of claim 35, wherein:		
2		the cr	reating step is carried out with the liquid environment being contained by		
3	the pericardium.				
1		39.	The method of claim 35, wherein:		
2		the al	blating step is carried out with the ablating device having an ablating		
3	element which uses RF, ultrasound, laser, cold or microwave.				
. 1		40.	The method of claim 35, wherein:		
2		the c	reating step is carried out with the pericardium being incised to create an		
3	opening, the	fluid er	nvironment having an exposed free surface of the liquid.		
1		41.	The method of claim 35, wherein:		

	2	the creating step is earned out with the ablating device passing through a			
	3	penetration in the pericardium.			
	1	42. A method of ablating tissue, comprising the steps of:			
	2	providing an ablating device having a convex contact surface;			
	3	positioning the convex contact surface adjacent to an epicardial surface;			
	4	ablating the epicardial tissue after the positioning step.			
	1	43. The method of claim 42, wherein:			
÷	2	the providing step is carried out with the ablating device comprising an			
THE THE THE WAS BUILDING TO	3	ultrasonic transducer.			
	1	44. The method of claim 43, wherein:			
W #7%	2	the providing step is carried out with the convex surface being formed by an			
Private.	3	element mounted to the ultrasonic transducer.			
1000	1	45. The method of claim 44, wherein:			
	2	the providing step is carried out with a membrane forming the convex surface.			
	2	the providing step is earned out with a memoratio forming the convex particle.			
	1	46. The method of claim 45, wherein:			
	2	the providing step is carried out with the membrane partially defining a cavity			
	3	containing a fluid.			
	1	47. The method of claim 42, wherein:			
	2	the providing step is carried out with the ablating device having a plurality of			
	3	ablating elements.			
	1	48. The method of claim 42, wherein:			
	2	the providing and moving steps are carried out with the ablating device			
	3	forming a closed loop around the heart.			
	1	49. The method of claim 48, wherein:			
	2	the providing and moving steps are carried out with the ablating device			
	3	forming a closed loop around the pulmonary veins; and			
	4	the ablating step is carried out to form an ablation around the pulmonary veins.			
	1	50. An ablating device for ablating tissue, comprising:			

2		a body;			
3		an ablating element coupled to the body; a membrane extending over at least part of the ablating element, the membrane being spaced apart from the ablating element to form a fluid cavity; and			
4					
5	being spaced a				
6		the fluid cavity containing a fluid.			
1		51.	The ablating device of claim 50, further comprising:		
2		a fluid s	source coupled to the fluid inlet for circulating the fluid through the		
3 .	fluid cavity.				
1		52.	The ablating device of claim 51, further comprising:		
			-		
1 2 2 3	raturns the flu	a heat exchanger having an inlet which receives the fluid and an outlet which returns the fluid to the fluid cavity.			
	returns the riu	na to the	nuid Cavity.		
II 1		53.	The ablating device of claim 50, wherein:		
1 2 11		the mer	nbrane forms a convex contact surface.		
		54.	The ablating device of claim 50, wherein:		
1 1		the mer	mbrane forms the convex contact surface with fluid pressure.		
1		55.	The ablating device of claim 50, wherein:		
2		the me	mbrane permits some of the fluid to pass therethrough to wet the target		
3	tissue with th	e fluid.			
1		56.	The ablating device of claim 50, wherein:		
2		the me	mbrane extends over more than one ablating element.		
1		57.	An ablating device for ablating tissue, comprising:		
2		a body	;		
3		an abla	ating element coupled to the body;		
4		a flexil	ole skirt surrounding at least a portion of the ablating element;		
5		the flu	id cavity containing a fluid.		
1		58.	The ablating device of claim 57, further comprising:		
2		a fluid	delivery channel which delivers fluid to the fluid cavity.		
1		59.	The ablating device of claim 57, wherein:		

- the body has a contact surface on a bottom side, the contact surface being
- 3 convex.
- 1 60. A method of ablating tissue from an epicardial location using a device
- 2 according to claims 51-59.